

KOLOMIYCHENKO, A.I., zasluzhennyy deyatel' nauki, prof.; GUKOVICH, V.A.,  
mladshiy nauchnyy sotrudnik; YASHAN, I.A., aspirant.

Method and technic for surgery on the stapes in otosclerosis.  
Zhur. ush., nos. i gorl. bol. 20 no.1:17-31 Ja-F '60.

(MIRA 14:5)

1. Iz kafedry bolezney ukha, gorla i nosa (zav. - zasl. deyatel'  
nauki prof. A.I.Kolomiychenko) Kiyevskogo instituta usovershenstvo-  
vaniya vrachey i surdologicheskoy laboratori Kiyevskogo instituta  
ortopedii i travmatologii.  
(OTOSCLEROSIS) (EAR—SURGERY)

KOLOMIYCHENKO, A.I., zasluzhenny deyatel' nauki prof.

The 20th anniversary of the death of Mikhail IAkovlevich Kharshak..  
Zhur. uzh., nos. i gorl. kol. 20 no.5:77-79 S-0 '60.  
(MIRA 14:6)

(KHARSHAK, MIKHAIL IAkovlevich, d. 1940)

KOLOMIYCHENKO, A.I., zasluzhenny deyatel' nauki, prof.

Surgery of the stapes in otosclerosis. Zhur. ush., nos. 1 gorl.  
bol. 20 no. 6:12-20 N-D '60. (MIRA 15:2)

1. Kiyevskiy institut usovershenstvovaniya vrachey.  
(EAR-SURGERY) (OTOSCLEROSIS)

KOLOMIYCHENKO, ALEKSEY I.

"Our experiences of the surgical treatment of deafness in  
otosclerosis."

report submitted for the Seventh Intl. Congress of Otorhinolaryngology,  
Paris, 23-29 July 1961

Kiev, USSR

KOLOMIYCHENKO, A.I., zasluzhennyuy deyatel' nauki prof.; GUKOVICH, V.A.

Report on the activity of the Kiev Province Otolaryngological Society for 1960. Zhur. ush., nos. i gorl. bol. 21 no.1:93-96 Ja-F '61. (MIRA 14:6)

1. Predsedatel' Kiyevskogo oblastnogo nauchnogo obshchestva otolaringologov (for Kolomiychenko). 2. Sekretar' Kiyevskogo oblastnogo nauchnogo obshchestva otolaringologov (for Gukovich).

(KIEV PROVINCE—OTOLARYNGOLOGICAL SOCIETIES)

KOLOMIYCHENKO, A.I., zasluzhennyy deyatel' nauki, prof.; GUKOVICH, V.A.,  
mladshiy nauchnyy sotrudnik

Possible ranges in the use of surgery for mobilizing the stapes.  
Zhur. ush., nos. i gorl. bol. 21 no.5:6-12 S-0 '61. (MIRA 15:1)

1. Iz Nauchno-issledovatel'skogo instituta otolaringologii (dir. -  
zasluzhennyy deyatel' nauki prof. A.I.Kolomiychenko);  
(EAR SURGERY)

KOLOMIYCHENKO, A.I., zasluzhennyj deyatel' nauki, prof.

"Diseases of the ear, throat and nose" by V.F.Undrits and others.  
Reviewed by A.I.Kolomiichenko. Zhur. ush., nos. i gorl. bol. 21  
no.5:85-88 S-0 '61. (MLKA 15:1)  
(OTOLARYNGOLOGY) (UNDRITS, V.F.) (KHILOV, K.L.)  
(LOZANOV, N.N.) (SUPRUNOVA, V.K.)

KOLOMIYCHENKO, A.I., prof., zasluzhennyj deyatel' nauki; YASHAN, I.A.

An account of the work of the Ukrainian Society of Otolaryngologists  
during 1960. Zhur. ush., nos. i gorl. bol. 21 no. 5: 91-96 S-0 '61.  
(MIRA 15:1)

1. Predsedatel' Ukrainskogo nauchnogo obshchestva otolaringologov  
(for Kolomiychenko). Izpolnyayushchiy obyazannosti sekretarya  
Ukrainskogo nauchnogo obshchestva otolaringologov (for Yashan).  
(UKRAINE OTOLARYNGOLOGICAL SOCIETIES)

KOLONIYCHENKO, Aleksey Isidorovich, prof.; SHEYNMAN, Naum solomonovich,  
kand. med. nauk; KHARSHAK, Ye.M., red.; CHUCHUPAK, V.D., tekhn.  
red.

[Atlas of tonal audiometric studies; a textbook for practicing  
physicians and students]Atlas tonal'nykh audiometricheskikh  
issledovani; posobie dla prakticheskikh vrachei i studentov.  
Kiev, Gosmedizdat USSR, 1962. 292 p. (MIRA 15:11)  
(AUDIOMETRY)

KOLOMIYCHENKO, Aleksey Isidorovich; GUKOVICH, Valeriya Aleksandrovna;  
KHARSHAK, Yevgeniy Mikhaylovich; YASHAN, Ivan Artemovich;  
YEVDOSHCHENKO, Ye.A., red.; GITISHTKYN, A.D., tekhn. red.

[Operations on the stirrup in otosclerosis] Operatsii na stremeni pri otoskleroze. Pod obshchei red. A.I.Kolomiichenko.  
Kiev, Gosmedizdat USSR, 1962. 280 p. (MIRA 16:1)  
(OTOSCLEROSIS) (TYMPANAL ORGAN--SURGERY)

KOLOMIYCHENKO, A.I., zasluzhennyj deyatel' nauki, prof.; GUKOVICH, V.A.,  
kand.med.nauk

Report of the activity of the Kiev Province Scientific Society  
of Otolaryngologists for 1961. Zhur.ush., nos.1 gorl.bol. 22  
no.2:91-96 Mr.Ap '62. (MIRA 15:11)

1. Predsedatel' Kiyevskogo oblastnogo nauchnogo obshchestva  
otolaringologov (for Kolomiychenko). 2. Sekretar' Kiyevskogo  
oblastnogo nauchnogo obshchestva otolaringologov (for Gukovich).  
(KIEV PROVINCE—OTORHINOLARYNGOLOGICAL SOCIETIES)

KOLOMIYCHENKO, A. I., prof., zasluzhennyy deyatel' nauki, uchastnik VIII  
Mezhdunarodnogo protivorakovogo kongressa

Eighth International Cancer Research Congress. Zhur. ush., nos.  
i gor. bol. 22 no. 6:83-86 N-D'62. (MIRA 16:7)  
(ONCOLOGY—CONGRESSES)

KOLOMIYCHENKO, A.I., zasluzhennyy deyatel' nauki, prof. (Kiyev)

More frequently occurring complications in operations for stirrup  
mobilization and methods for their control. Zhur., ush., nos. 1  
gorl. bol. 23 no. 5:88-91 S-0'63 (MIRA 17:3)

KOLOMIYCHENKO, A.I., prof., Laureat Leninskoy premii, zasl. deyatel' nauki, red.; LUKOVSKIY, L.A., prof., red.; ZARITSKIY, L.A., prof., zasl. deyatel' nauki, red.; PITENKO, N.F., prof., red.; GLADKOV, A.A., prof., red.; KURILIN, I.A., prof., red.; MOSTOVVOY, S.I., doktor med. nauk, red.; BARLYAK, R.A., prof., red.; SHPARENKO, B.A., dots., red.; ROZENGAUZ, D.Ye., dots., red.; KHARSHAK, B.M., dots., red.; CHERNOVA, I.A., kand.med. nauk, red.

[Current problems of clinical and experimental otolaryngology]  
Aktual'nye voprosy kliniko-eksperimental'noi otolaringologii.  
Kiev, Zdorov'ia, 1964. 350 p. (MIRA 18:2)

1. Nauchno-issledovatel'skiy institut otolaringologii. 2. Otdel profpatologii Nauchno-issledovatel'skogo instituta otolaringologii (for Pitenko).

KOLOMIYCHENKO, A.I., prof., zasluzhennyy deyatel' nauki; KENIG, P.P.

Materials on X-ray diagnosis of otosclerosis. Zhur. ush.,  
nos. 1 gor. bol. 24 no.1:3-10 Ja-F '64. (MIRA 18:3)

1. Iz Nauchno-issledovatel'skogo instituta otolaringologii  
Ministerstva zdravookhraneniya UkrSSR.

KOLOMIYCHENKO, A. ... zasluzhennyy deyatel' nauki, prof. (Kiyev); KVITNITSKIY,  
... Ye., kand. med. nauk (Kiyev)

Corticosteroid therapy in otolaryngology. Zhur. ush., nos. 1 gor.  
bol. 24 no. 2:23-27 Mr-Ap '64 (MIRA 18:1)

1. Nauchno-issledovatel'skiy institut otolaringologii Ministerstva  
zdravookhraneniya UkrSSR.

KOLOMIYCHENKO, A.I., prof. zasluzhennyy deyatel' nauki; ZARITSKIY, L.A.,  
prof. zasluzhennyy deyatel' nauki; SHVARTSBERG, Ya.A., prof.  
zasluzhennyy deyatel' nauki; PITIKO, N.F., prof.; MOSTOVY, S.I.,  
doktor med. nauk; TYTAR', G.M., otolaringolog.

Professor Leon Antonovich Lukovskii; 1903 - ; on his 60th birthday.  
Zhur. ush., nos. i gor. bol. 24 no.2:92-93 Mr-Ap '64  
(MIRA 18:1)

IVANCHENKA, O.N., insh.; KURILLOVA, A.A., insh.; KOLOMIYCHENKO, G.D., insh.

Coppering and silvering of aluminum buses. Vest.elektroprom. 31  
no.3:46-47 Mr '60. (MIRA 13:6)  
(Electroplating) (Bus conductors (Electricity))

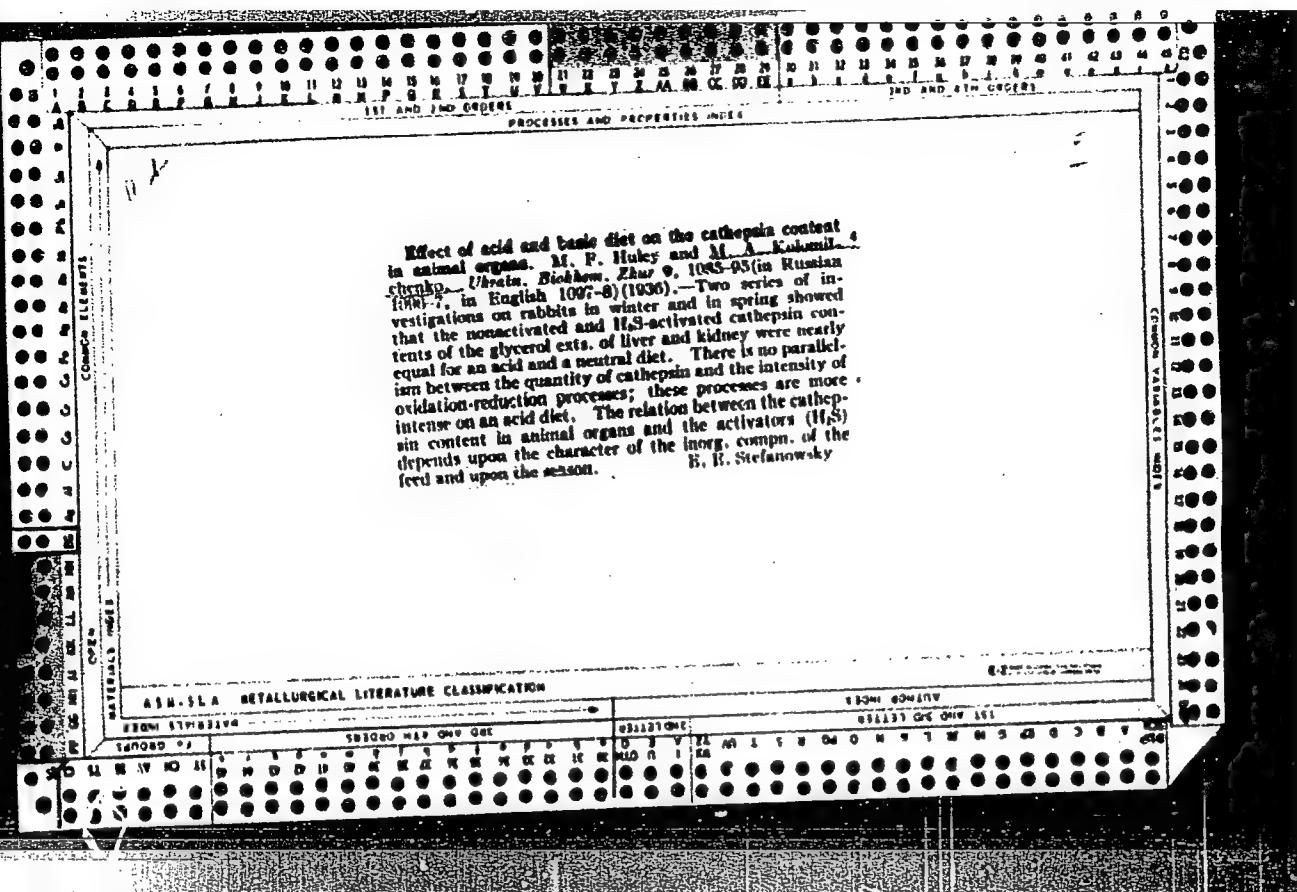
PETRICHENKO, I.P.; KOLOMICHENKO, G.P.

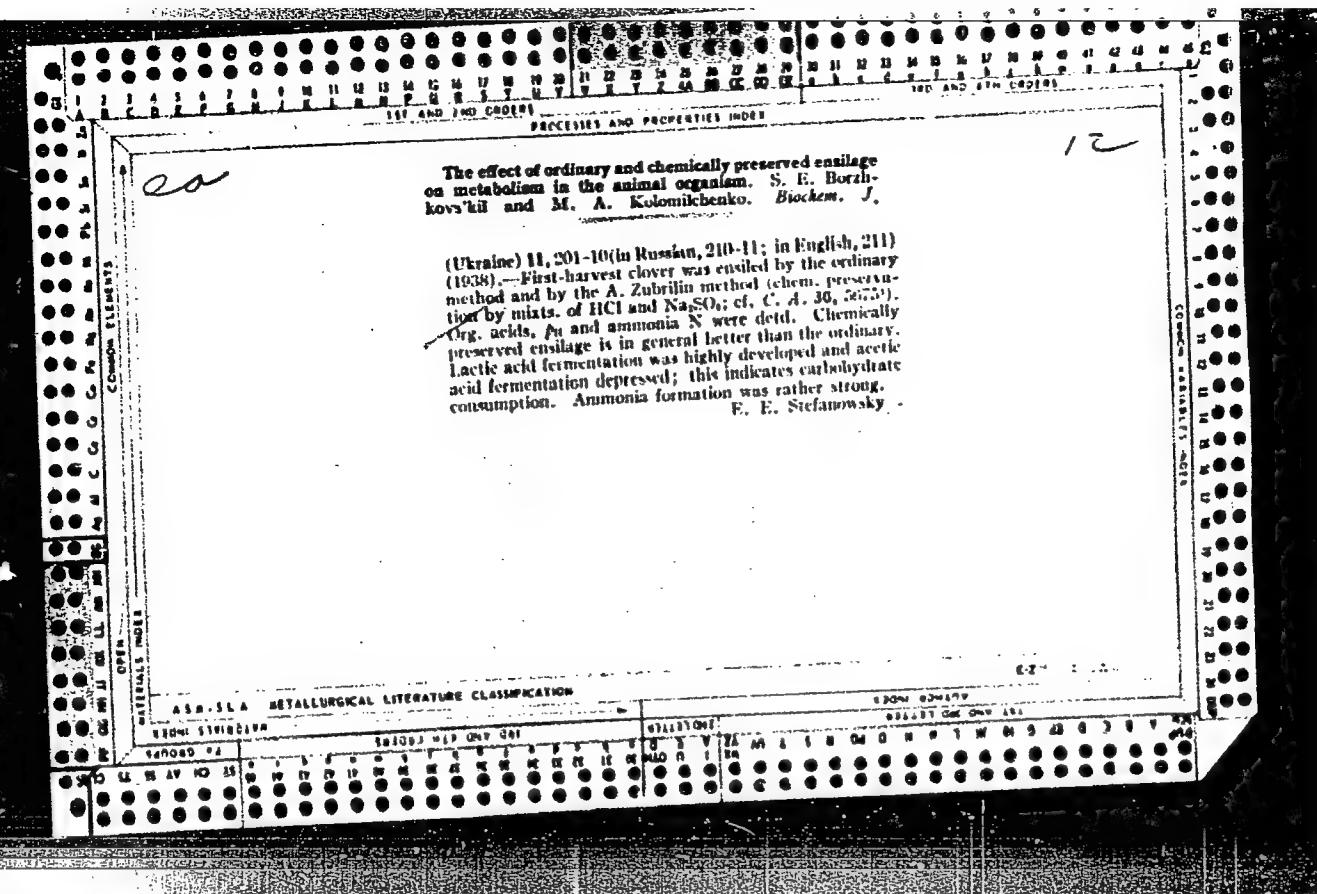
Improved variant of an MI-1 M machine. Zav.Lab. 31 no. 3433/-  
388 '65. (MIRA 3433)

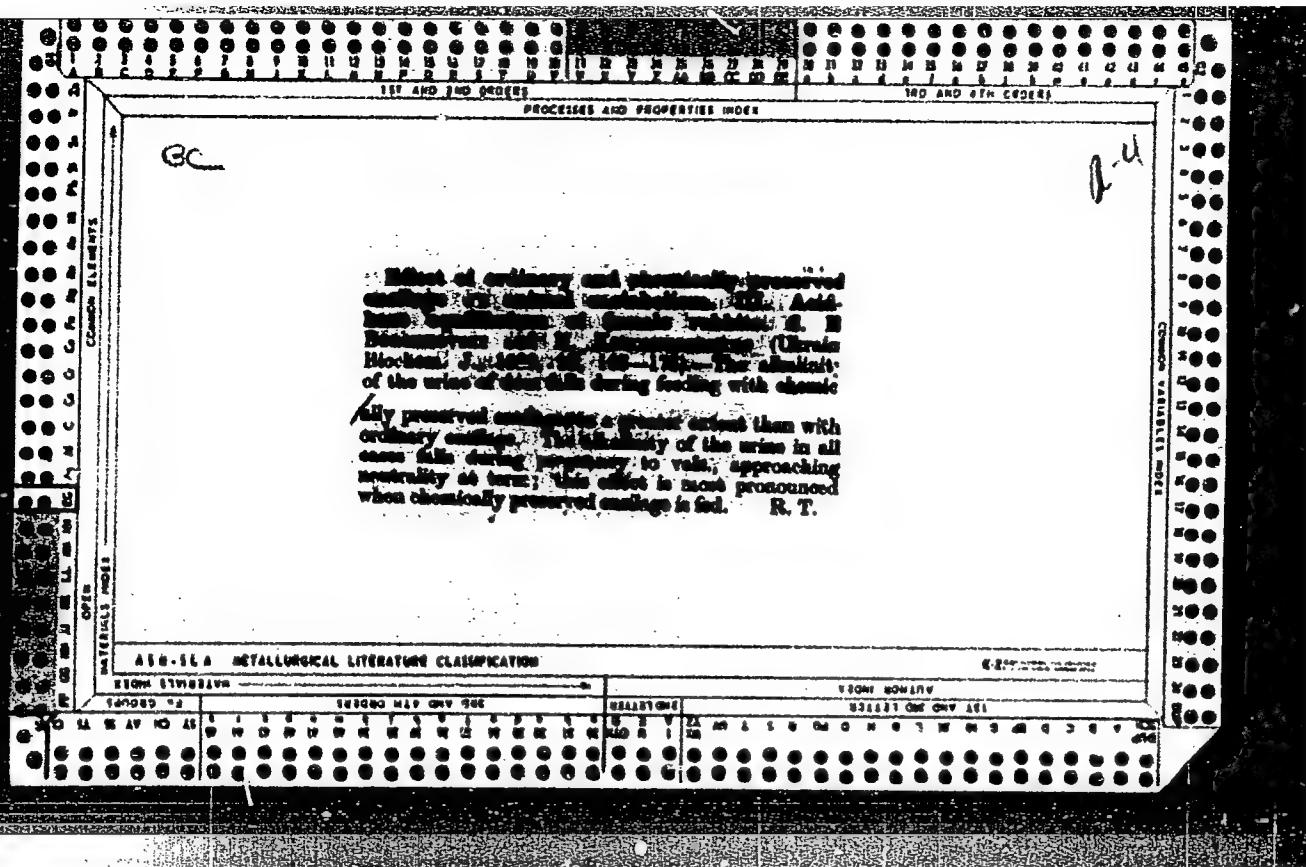
1. Dnepropetrovskiy metallurgicheskiy institut.

SHUPIK, P.; LAVRIK, S.; SHUMADA, I.; LESHCHENKO, P.; MEDYANIK, R.; RADCHENKO, P.;  
PANCHENKO, V.; YESINENKO, L.; CHERBOTAREV, D.; BRATUS', V.; ISHCHENKO, I.;  
KOMISSARENKO, I.; KOLOMIYCHENKO, I.; MAKAROV, A.; ARUTYUNOV, A.;  
SKRIPNICHENKO, D.; RODZAYEVSKIY, A.; PAVLENKO, K.; LEONENKO, K.;  
KOZYRENKO, N.; PARKHOMENKO, V.; CHEREN'KO, M.

Aleksandr Kirillovich Gorchakov; obituary. Vrach. delo no.8:144-145  
Ag '60. (MIRA 13:9)  
(GORCHAKOV, ALEKSANDR KIRILLOVICH, 1900-1960)







ca

12

**Chemical composition of ensilage prepared in various ways. I. Organic acid and sugar content.** S. E. Borzhovskii and M. A. Eremchenko. *Sidchuk J. (Ukraine)* 13, 273-83 (in Russian). 283-92 (in English). 383-7 (1939). The storage and especially the chem. preservation of ensilage (with HCl and Gänther's salt) leads to the appearance of large quantities of butyric, lactic and acetic acid which lower the pH to about 3.9. Despite the evidence of intense autolysis, large amounts of sugar were also present. This is probably due to the decomposition of starch and hemicellulose. **II. Dynamics of altrogenous substances with different methods of ensilage preparation.** V. V. Mikhailova and P. M. Gutnitskaya. *Ibid.* 289-300 (in Russian, 400-2; in English, 402-3).—The various ways of prep., ensilage and preserving it did not prevent protein decompos. Protein N decreased from 70.2% to 60.5% of total N. Amino acid, ammonia and residual N were increased. Brewer's yeast of low fermentation capacity inhibited ammonia-N production in chemically preserved clover. R. Levine

R. I. evium

APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000823920004-3"

KOLOMIYCHENKO, M. A.

Chemical Abst.  
Vol. 48 No. 8  
Apr. 25, 1954  
Biological Chemistry

The role of hexosediphosphate acid in esterification processes in muscle extracts. M. F. Gulyi and M. A. Kolomiychenko. *Zhur. Biochem. Acad. Sci. Ukr.R.S.R., Klev., Ukrains. Biokhim. Zhar.* 18, 231-63 (in Russian, 203-4) (1946).—The esterification of inorg. P in the presence and absence of starch (I), adenylic acid (Ia),  $\text{ICH}_2\text{COOH}$  (II), phlorizin (III), was studied with hexosediphosphate acid (IIIa) in muscle exts., which were poor in coenzymes and had undergone prolonged autolysis. The exts. were prepd. from the muscles of the back and hind legs of freshly killed rabbits. The first ext. with  $\text{H}_2\text{O}$  was discarded, after this several exts. were obtained by extg. with 0.25%  $\text{K}_2\text{HPO}_4$ . The exts. lasted 1-3 days and were done in a refrigerator in the presence of toluene. The final solns. were analyzed for Embden ester, Cori ester (IV), hexosemonophosphate, etc. IIIa, when being added to such exts. in the presence of I, raises the esterification of inorg. P 150-270% as compared to the phosphorolytic esterification in absence of IIIa. The esterification of inorg. P does not occur if IIIa is added to these exts. without I, or if IIIa and IV are used without I. The increased esterification of the inorg. P in the presence of IIIa and I is a phenomenon different from the activation of the phosphorolysis by means of Ia. This rate increase with I and IIIa is but little affected by II, but affected by III just the same as phosphorolysis. In the Pesters formed in the presence of I and IIIa less hexosemonophosphoric acids are formed than in the case of phosphorolytic esterification, but in their place a corresponding amt. of IIIa forms. The formation of IIIa in the presence of I and IIIa occurs in exts. in which no lactic acid is formed, in which there is no oxidation-reduction, and which are not affected by high concns. of II.

Werner Jacobson

KOLOMICHENKO, M. A.

26621 Gulyy, M. F. i duhavina. G. I. novyy put' prevrashcheniya azota ammiaka v aminoazot v tkanyakh zhivotnykh. - v ogl. 2-y avt: a. m. gulyy. ukr. biolhim. zhurnal, 1949, No. 2, s. 175-84.-na ukr, Yaz-Rezyume na rus. Yaz.-Bibliogr: 6 nazv.

SO: LETOPIS' NO. 35, 1949



1. KOLOMICHENKO, M.A.; HULYI, M.F.; DUBRAVINA, H.I.
2. USSR (600)
4. Amino Acids
7. Nature of amino acids formed during fixation of ammonia by liver extracts in the presence of citric acid, M.A. Kolomichenko, M.F. Hulyi, H.I. Dubravina, Ukr.biokhim. zhur. 24 no. 1, 1952.
9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953, Unclassified.

KOLOMICHENKO, M-A.

... in crystallization of rabbit muscle in acidic medium (B. S. Levitt, B. S. Levitt, and V. A. Dvornik, 1957, and O. Ya. Popov, B. S. Levitt, and V. A. Dvornik, 1958, in Russian, 1957-58 (1954).—The proteins of fresh, cooled, and twice-ground rabbit muscles were ext. in the cold with an equal vol. of 0.25%  $\text{K}_2\text{HPO}_4$ . Then  $(\text{NH}_4)_2\text{SO}_4$  was added to 0.45 satn. After 18-20 min. the ppt was centrifuged and removed to the glass supernate (NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub> was added to 0.45 satn.; a new ppt. (second which was centrifuged down 25-30 min. later) the supernate was poured off completely and the ppt. dissolved in a min. vol. of the original  $\text{K}_2\text{HPO}_4$  soln. After two days' standing in the refrigerator a cryst. ppt. was formed which had high adenosinetriphosphatase activity. By boiling the supernate up to 0.45 satn. and letting it stand for 20 min., a protein ppt. was formed; upon dissolving the latter in phosphate buffer and letting it stand in the cold for 24 hrs. crystals of the shape of cucumber seeds were formed. This protein fraction possesses phosphotransferase activity, which in the presence of protein, in the presence of  $\text{Mg}^{2+}$  and  $\text{PO}_4^{3-}$ , transfers  $\text{PO}_4^{3-}$  groups from inorganic phosphate to the protein molecule, thus forming a protein ester. This fraction is isolated in the cold in the cold from phosphate solution in the form of small, soluble pyramids. This fraction is identical with the fraction A, obtained by the method of Baranov I. (A. A. A., 1954, 11, 14) in Dvornik et al. (C. A. 48, 12215d). The protein at 0.45 satn. is dis. and soluble in water, but at 0.65 satn. forms crystals in the cold from phosphate solution in 2-3 days as thin needles loosely gathered in sheaves. At 0.65 satn. a protein fraction is obtained which, when treated as above, forms crystals in the shape of long, narrow and flat sticks. Cryst. and preservation is best accomplished at room temp.; the fraction possesses a high endopeptidase activity. Above 0.65 satn. protein fractions are obtained which seemingly do not differ from the protein fraction of 0.60 satn.; their identity has not been detd. B. S. Levitt

Inst. Biochemistry, AS USSR

KOLOMYCHENKO, M. A.

U.S.S.R.

The enrichment of silage of different plant origin with organic nitrogenous compounds. M. F. Gulya, M. A. d' Kolomichenko, R. G. Degtyar, and K. I. Veresenko (Inst. M. Blochera, Acad. Sci. Ukr. S.S.R., Kiev). Ukrainsk. Biokhim. Zhur. 27, 76-80 (Russian summary, 80-2) (1955).<sup>3</sup>

It was previously reported (cf. Satisalizichne Pitanie 7, 12, 1952) that in the process of the microbial silage fermentation added inorg. N salts are converted into org. N compds. of nutritive value, enriching the silage as an animal fodder. The new org. N compds. are mostly amino acids, amides, and the like. Regardless of the type of the inorg. N salt added to the silage the degree of its conversion into org. N compds. is about the same and depends upon the amt. added. The optimum was 1 kg. of N or 4.7 kg. of  $(\text{NH}_4)_2\text{SO}_4$ /ton of the green material. The silage were in the form of trenches of 100-ton capacity. Corn, sunflower, and sugar-beet-top silage with and without added  $(\text{NH}_4)_2\text{NO}_3$  at 4.7 kg./ton, were studied. Under the usual conditions of silage fermentation (neutral) the naturally occurring org. N substances were reduced during the fermentation process as follows: in corn silage 20.1%; in sunflower silage 8.8%; in sugar-beet-top silage 10.6%. The addition of  $(\text{NH}_4)_2\text{SO}_4$  at the rate indicated reduced such loss correspondingly to the following: 11.5, 10.1, and 21.4%. The org. N substances converted from the inorg. salt constituted 65% of nutritive N compds. in the following percentages: corn silage 1.48%; sunflower 0.80%, and sugar-beet tops 0.1% on the dry-wt. basis.

B. S. Levine

KOLOMIYCHENKO, M. A.

"The Influence of Ultraviolet Irradiation of Certain Amino Acids," by M. A. Kolomiychenko, Ukr. Biokhim Zh., Vol 28 No 1, 1956, pp 95-105 (from Referativnyy Zhurnal -- Khimiya, Biologicheskaya Khimiya, No 18, 25 Sep 56, pp 9-10, Abstract No 17042)

A study of the effect of ultraviolet irradiation on solutions of amino acids in vitro indicated that, as a result of radiation, deamination of certain amino acids occurred in which histidine was deaminated to the greatest degree and tryptophan to the least. Under the effect of increasing doses of ultraviolet irradiation, substantial changes were observed in the characteristics of the spectra of phenylalanine and histidine.

Additional studies indicated changes of optical activity of amino acids (tyrosine, phenylalanine, tryptophan, histidine). Tryptophan absorbed the greatest amount of light and histidine the least.

Sum 1274

Inst. Biochem, Acad. Sci Ukr. SSR, Kiev.

KOLOMIYCHENKO, M. A.

*✓* The effect of ultraviolet rays on enzyme proteins. M. A. Kolomiychenko (Inst. Biocen., Acad. Sci. Ukraine, S.S.R., Kiev, Ukraine. Biokhim. Zhur. 28, 164-74 (in Russian, 174-6)(1953); cf. C.A. 50, 9474d.—Phosphatase was obtained as follows: rabbit skin was ground and extd. with 0.25%  $K_2HPO_4$ , dialyzed, and passed through No. 4 glass filter. Aldolase (myogen A) was similarly prepared from rabbit muscle tissue. Both types of exts. were exposed to the action of ultraviolet rays. Tests were then made for residual phosphatase and aldolase activity. It was demonstrated that inactivation (denaturation) of cryst. aldolase and phosphatase is preceded by changes in the physico-chem. and biol. properties of the enzyme proteins. During the primary stages of exposure to the ultraviolet rays the enzyme activity of the exts. increases. Parallel to this there is observed an enhanced solv. of the protein exts., a lowered viscosity and a reduction in the no. of free reacting SH groups. Contrary to the case in chemical denaturation no noteworthy hydrolysis of the peptide compds. occurs. Cryst. aldolase subjected to small irradiation doses becomes more easily dispersed, and vice versa. Inactivation of the protein enzymes runs parallel to their loss in solv., increase in viscosity and the increase in the no. of free HS groups in the case of large-dose irradiation. In small-dose irradiation the conditions are completely reversed. B. S. L.

KOLOMIYCHENKO, M.A.  
KOLOMIYCHENKO, M.A.

Changes in the molecular weight and catalytic activity of some proteins as induced by ultraviolet radiation [with summary in English]. Ukr.biokhim. zhur. 29 no.3:361-370 '57, (MLRA 10:9)

1. Institut biokhimii Akademii nauk Ukrainskoy SSR, Kiyev.  
(ULTRAVIOLET RAYS--PHYSIOLOGICAL EFFECT)  
(PROTEINS)

KOLOMIYCHENKO, M.A. [Kolomiichenko, M.A.]

Protective action of some amino acids during ultraviolet inactivation of crystalline proteins [with summary in English]. Ukr. biokhim. zhur 30 no.5:669-677 '58  
(MIRA 11:12)

1. Institut biokhimii AN USSR, Kiyev.  
(ULTRAVIOLET RAYS--PHYSIOLOGICAL EFFECT)  
(CYSTEINE)  
(HISTIDINE)

KOLOMIYCHENKO, M.A.

Changes in the physicochemical and biological properties of proteins  
successively exposed to different types of radiation [with summary  
in English]. Ukr.biokhim.shur. 30 no.6:803-813 '58.

(MIRA 11:12)

1. Institut biokhimii AN USSR, Kiev.  
(RADIATION--PHYSIOLOGICAL EFFECT) (PROTEINS)

KOLOMIYCHENKO, M.A.; STASEVSKAYA, I.P. [Stasevs'ka, I.P.]

Reversible changes in the sulphhydryl groups of cysteine due  
to the effect of radiation energy. Ukr. biokhim. zhur. 32 no.3:  
331-345 '60.  
(MIRA 13:6)

1. Institut of Biochemistry of the Academy of Sciences of the  
Ukrainian S.S.R., Klyev.  
(RADIATION--PHYSIOLOGICAL EFFECT) (CYSTEINE)  
(MERCAPTO GROUP)

KOLOMIYCHENKO, M.A.; STASEVSKAYA, I.P. [Stasiev'ka, I.P.]

Effect of radiant energy on changes in the aldolase activity and  
sulphydryl groups of myogen A. Ukr. biokhim. zhur. 32 no. 5:645-  
654 '60. (MIRA 14:1)

1. Institut biokhimii Akademii nauk Ukrainskoy SSR, Kiyev.  
(MYOGEN) (RADIATION--PHYSIOLOGICAL EFFECT)

KOLOMITSCHENKO, M.A. [Kolomiichenko, M.A.]

Changes of tyrosine, tryptophan and histidine under the action of ionizing and light radiation. Ukr. biokhim. zhur. 34 no.2:217-229 '62  
(MIRA 16:11)

1. Institute of Biochemistry of the Academy of Sciences of the Ukrainian S.S.R., Kiev.

\*

KOLOMIYCHENKO, M.A.

Photochemical synthesis of amino acids. Ukr. biokhim. zhur. 36 no.2;  
216-225 '64.  
(MIRA 17:11)

1. Institute of Biochemistry of the Academy of Sciences of the Ukrainian  
S.S.R., Kiyev.

KOLOMIYCHENKO, M.A.

Synthesis and conversion of amino acids and other organic compounds under the effect of radiations and other forms of energy. Ukr. biokhim. zhur. 36 no.1:132-155 '64.

(MIRA 17:12)

1. Institut biokhimii AN UkrSSR, Kiyev.

KOLOMIYCHENKO, M.A.; MOROZOVA, R.P.

Quantitative changes in tryptophan, tyrosine and histidine in the  
composition of proteins irradiated with nuclear and light rays.  
Ukr. biokhim. zhur. 34 no.3:359-370 '62.

(MIRA 18:5)

1. Institut biokhimii AN UkrSSR, Kiyev.

FA 1T53

KOLONICHENKO, M. I.

USSR/Medicine - Chemo therapy

Jan 1947

"The Treatment of Shock by L S Stern's Method of  
Introducing Potassium Phosphate into the Lymphatic  
System," M I Kolomichenko, 4 pp

"Byul Eksper Biol I Med" Vol XXIII, No 1

Summary of the method perfected by Academician  
L S Stern.

1T53

"APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000823920004-3

KOLOMIYCHENKO, M. I. et al (other names not given)

"In the Makarov Hospital"

Meditainskiy Rabotnik, No 79 - 1407, 27 Sept 1955

APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000823920004-3"

KOLOMYICHENKO, M. I.

Summaries of papers presented at the XXVI Congress of Surgeons of the USSR, Moscow, 20 - 27 January 1955, included:

Ways of Reducing Lethality in Cases of Acute Intestinal Obstruction.

M. I. KOLOMYICHENKO

SOURCE: ██████████ A-46013 (Official Publication) Unclassified.

*KOLOMIYCHENKO, M. I.*

KOLOMIYCHENKO, M. I., zasl. deyatel' nauki prof. (Kiyev)

Achievements in surgery in the Ukrainian S.S.R. during 40 years of  
Sovet regime. Nov.khir.arkh. no.5:7-17 S-0 '57. (MIRA 10:12)

1. Glavnyy khirurg Ministerstva zdravookhraneniya USSR.  
(UKRAINE--SURGERY)

KOLOMIYCHENKO, M.I., professor, zasluzhennyy deyatel' nauki; NAZARSKO, A.N.,  
~~zasluzhennyy deyatel' nauki~~

Ten years in the surgical treatment of goiter. Vrach.delo no.9:  
923-927 S '57. (MLRA 10:9)

1. Kiyevskiy institut usovorshenstvovaniya vrachey  
(THYROID GLAND--Surgery) (GOMSS)

KOLOMIYCHENKO, M. I., zasluzhenny deyatel' nauki USSR, prof.

Principal results of the development of surgery in the Ukraine during  
the past forty years. Khirurgiia 33 no.8:3-11 Ag '57. (MIRA 11:4)  
(Surgery,  
in Ukraine, progr.)

KOLOMIYCHENKO, M.I., prof., zasluzhennyj deyatel' nauki (Kiyev, ul. Reyterskaya,  
d.17 kv.6)

Diagnosis and clinical treatment of acute pancreatitis. Nov.khir.  
arkh. no.3:16-25 My-Je '58. (MIRA 11:9)  
(PANCREAS--DISEASES)

KOLOMIYCHENKO, M.I., prof., zasluzhenny deyatel' nauki USSR.

Nikolai Markianovich Volkovich, eminent Ukrainian surgeon. Nov.khir.  
arkh. no.6:3-8 N-D '58. (MIRA 12:3)  
(VOLKOVICH, NIKOLAI MARKIANOVICH, 1858-1928)

KOLOMIYCHENKO, M.I., prof., zasl. deystel' nauki, glavnnyy khirurg

Prospects for the development of surgery in the Ukrainian S.S.R.  
in the light of the decisions of the Twenty-first Congress of the  
CPSSU. Nov. khir. arkh. no.2:3-10 Mr-Ap '69. (MIRA 12:7)

1. Ministerstvo zdravookhraneniya USSR.  
(UKRAINE--SURGERY)

AKIMOV, V.I.; ALEXSEYENKO, I.P.; ALENT'YEVA, K.A.; AMOSOV, N.N.; ARUTYUNOV, A.I.;  
BRATUS', V.D.; VASHCHENKO, I.D.; GELLMAN, D.S.; GRISHIN, M.A.;  
DANKEYIVA, T.N.; DENISOVA, A.G.; DOLGOVA, M.P.; IVANOV, N.A.; ISHCHENKO,  
I.N.; KATS, V.A.; KOLOMIYCHENKO, M.I.; LAVRIK, S.S.; LIMAREV, A.A.;  
NAZAROVA, N.G.; NOVACHEMKO, N.P.; PETRUNYA, S.P.; PKHAKADZE, A.L.;  
RUDENKO, F.A.; SERGIYEVSKIY, V.F.; TATSLIN, I.S.; TARTAKOVSKIY, B.S.;  
CHIZHONOK, P.I.; SHAIABALA, M.P.; SHUMADA, I.Y.; SHUPIK, P.L.

Konstantin Konstantinovich Skvortsov; obituary. Nov.khir.arkh.  
no.3:142-143 My-Je '59. (MIRA 12:10)  
(SKVORTSOV, KONSTANTIN KONSTANTINOVICH, 1871-1959)

KOLOMIYCHENKO, M.I., prof., zasluzhennyj deyatel' nauki

Current state of surgical aid for the population of the Ukrainian  
Republic and future tasks. Sov.zdrav. 18 no.10:39-42 '59.  
(MIRA 13:2)

1. Glavnnyj khirurg Ministerstva zdravookhraneniya USSR.  
(SURGERY OPERATIVE)

KOLOMIYCHENKO, M.I., prof. (Kiyev)

Nikolai Markianovich Volkovich; on the 100th anniversary of  
his birth. Fel'd 1 akush. 24 no.4:35-38 Ap '59.

(MIRA 12:5)

(VOLKOVICH, NIKOLAI MARKIANOVICH, 1858-1928)

KOLOMIYCHENKO, M.I., prof., zasluzhennyj deyatel' nauki USSR

Problem of sutures in gastrointestinal surgery. Khirurgija 35 no.10:  
133-135 0 '59. (MIRA 12:12)  
(GASTROINTESTINAL SYSTEM surgery)

KOLOMIYCHENKO, M.I., prof. (Kiyev, Reyterskaya ul., 17, kv.6); KAZARENKO,  
A.N., kand. med. nauk

Early and late results of surgery for thyrotoxic goiter. Vest. khir.  
82 no.6:24-30 Je '59.  
(MIRA 12:8)

1. Iz kliniki obshchey khirurgii (zav. - prof. M. I. Kolomiychenko)  
Kiyevskogo meditsinskogo instituta i khirurgicheskoy kliniki Kiyev-  
skogo instituta usovershenstvovaniya vrachey.  
(GOITER)

KOLOMIYCHENKO, M.I., zasluzhennyy deyatel' nauki, prof.

Great Soviet surgeon, Aleksei Petrovich Krymov; on the fifth anniversary  
of his death. Nov. khr. arkh. no. 17-11 Ja-F '60. (MIRA 15:2)  
(KRYMOV, ALEKSEI PETROVICH, 1872-1954)

KOLOMIYCHENKO, M.I., zasluzhennyj deyatel' nauki, prof. (Kiyev, ul. Reyterskaya,  
d.12, kv.6)

Pathogenesis and clinical aspects of hemorrhoids. Nov. khir. arkh.  
no.3:12-17 My-Je '60. (HEMORRHOIDS) (MIA 15:2)

KOLOMIYCHENKO, M. I., (Prof.) -- Kiev

"Assessment of Methods Used in the Treatment of  
Cardiospasm."

Report submitted for the 27th Congress of Surgeons of the USSR,  
Moscow, 23-28 May 1960.

ISHCHENKO, I.N., prof., zasluzhennyy deyatel' nauki, otd.red.; PARKHOMENKO, V.N., dotsent, red.; ALEKSEYENKO, I.P., dotsent, red.; BRATUS', V.D., dotsent, red.; KOLOMITSHENKO, M.I., prof., zasluzhennyy deyatel' nauki, red.; NOVACHENKO, N.P., prof., zasluzhennyy deyatel' nauki, red.; FEDOROVSKIY, A.A., prof., red.; LEVCHUK, G.A., red.; LOKHMATYY, Ye.G., tekred.

[Transactions of the Ninth Congress of Ukrainian Surgeons] Trudy IX s"yezd khirurgov Ukrainskoy SSR, Kiev, Gos.med.izd-vo USSR, 1960. 645 p. (MIRA 14:12)

1. S"yezd khirurgov Ukrainskoy SSR. 9th, Dnepropetrovsk, 1958.
2. Chlen korrespondent AN USSR (for Ishchenko). 3. Chlen-korrespondent Akademii meditsinskikh nauk SSSR (for Novachenko). (UKRAINE--MEDICINE, INDUSTRIAL) (PEPTIC ULCER) (PANCREAS--DISEASES) (SURGERY)

GORCHAKOV, A.K., prof. [deceased]; KOLOMIYCHENKO, M.I. (Kiyev)

Twenty-seventh All-Union Congress of Surgeons. Vrach. delo no.9;  
145-148 S '60. (MIRA 13:9)  
(SURGERY--CONGRESSES)

KOLOMIYCHENKO, M.I., zasluzhennyi deyatel' nauki, prof. (Kiyev)

"Investigators of the human body from Hippocrates to Pavlov" by  
H.Glaser. Reviewed by M.I.Kolomiichenko. Vrach. delo no.4:150-  
153 Ap '61. (MIRA 14:6)

1. Predsedatel' Pravleniya Ukrainskogo otdeleniya Obshchestva  
sovetsko-avstriyskoy druzhby.  
(ANATOMY, HUMAN) (GLASER, H.)

KOLOMITYCHENKO, M.I., prof., zasluzh. deyatel' nauki (Kiyev)

Evaluation of the methods for treating cardiospasm. Nov.khir.arkh.  
no.4:3-10 '62. (MIRA 15:5)  
(CARDIOSPASM)

KOLOMIYCHENKO, M.I., prof.; BAYEV, V.K., dotsent

Surgical treatment of pancreatic cysts. Khirurgiia 38 no.10:  
81-89 O '62. (MIRA 15:12)

1. Iz kliniki obshchey khirurgii (zav. - prof. M.I. Kolomiychenko)  
Kiyevskogo meditsinskogo instituta imeni A.A. Bogomol'tsa.  
(PANCREATIC CYSTS)

KOLOMIYCHENKO, Mikhail Isidorovich, zasl. deyatel' nauki USSR, prof.;  
FEDOSENKO, O.M., red.; KLOKOVA, S.M., tekhn. red.

[Live on, man; stories about surgery and surgeons] Zhyvy,  
liudyno; rozpovidi pro khirurgii ta khirurgiv. Kyiv, Vy-  
vo "Molod'", 1962. 167 p.  
(MIRA 15:9)

1. Zaveduyushchiy kafedroy khirurgii Kiyevskogo meditsinskogo  
instituta i rukovoditel' klinikoy Kiyevskoy bol'nitsy imeni  
Oktyabr'skoy revolyutsii (for Kolomiychenko).  
(Surgery)

KOLOMIYCHENKO, M. I.

Outstanding representative of Russian surgery Vladimir Afanas'evich Karavaev; on the 150th anniversary of his birth. Khirurgiia no. 3:131-134 '62. (MIRA 15:3)  
(KARAVAEV, VLADIMIR AFANAS'EVICH, 1811-1892)

BRATUS<sup>1</sup>, V.D., dots., otv. red.; AMOSOV, N.M., prof., red.;  
KOLOMIYCHENKO, M.I., prof., red.; FEDOROVSKIY, A.A.,  
prof., red.; TUROVETS, I.G., prof., red.; KLOCHKOV, I.Ye.,  
dots., red.; LEVCHUK, G.A., dots., red.; TRESHCHINSKIY, A.I.,  
dots., red.; KOCHKOV, I.Ye., red.; CHUCHUPAK, V.D., tekhn.red.

[Problems of anesthesiology] Voprosy anesteziologii. Sbornik  
nauchnykh rabot, posviashchennyi 70-letiiu so dnia rozhdeniya  
chlena-korr. AN USSR, zasl. deiatelia nauki prof. I.N. Ishchenko.  
Kiev, Gosmedizdat USSR, 1963. 254 p. (MIRA 16:7)

1. Kiev. Medychnyi instytut.

(ISHCHENKO, IVAN NIKOLAEVICH, 1891-) (ANESTHESIOLOGY)

KOLOMIICHENKO, MIKHAIL ISIDOROVICH 3005749

Prominent Ukrainian surgeon Mikhail Isidorovich Kolomiichenko; on his  
70th birthday. Klin.khir. no.11:3-5 N '62. (MIRA 16:2)  
(KOLOMIICHENKO, MIKHAIL ISIDOROVICH, 1892-)

FEDORENKO, Ye.G., prof., otv. red.; ZAYKO, N.N., prof., zam. otv. red.; OKHRIMENKO, Yu.M., red.; KOLOMITYCHENKO, M.S., zasl. deyatel' nauki Ukr.SSR prof., red.; SHAKHBAZYAN, G.Kh., prof., red.; IVANCHENKO, T.L., prof., red.; GURVICH, S.S., dots., red.; KRAVCHUK, M.I., dots., red.

[Philosophical problems in medicine and biology] Filosofskie voprosy meditsiny i biologii. Kiev, Zdorov'ia, 1965. 255 p.  
(MIRA 18:10)

1. Kiev. Medychnyi instytut. 2. Chlen-korrespondent AMN SSSR (for Shakhbazyan).

KOLOMIYCHENKO, O.I., prof., zasluzhennyy deyatel' nauki

Prevention and treatment of tonsillitis and tonsillar complications  
in children. Ped., akush. i gin. 22 no. 613-7 '60. (MIRA 14:10)

1. Otorinolaringologicheskaya klinika (zaveduyushchiy - zasluzhennyy  
deyatel' nauki prof. O.I.Kolomiychenko) Kiyevskogo instituta  
usovershenstvovaniya vrachey (direktor - dotsent V.D.Bratus').  
(TONSILS--DISEASES)

KOLOMIYCHENKO, V. V.

123-1-927

Translation from: Referativnyy Zhurnal, Mashinostroyeniye, 1957,  
Nr 1, p. 140 (USSR)

AUTHOR: Kolomiychenko, V. V.

TITLE: New Methods for Repairing Knuckle and Inner Bracket in  
Automatic Coupler (Novyye sposoby remonta shipa i  
polochki v korpusse avtostsepki)

PERIODICAL: Informats. pis'mo Vsesoyuzn.n.-i. Instituta zhel.-dor.  
transporta, 1955, Nr 321, p. 31

ABSTRACT: The technique of repairing knuckle lock pins in the  
automatic couplers is described. It is done by hard  
facing the defective pins by arc-welding with steel  
electrodes and machining it afterwards. Description of  
the installation for machining knuckle pins and the  
equipment for setting and checking the inner bracket of  
the knuckle in coupler head is given.

S.G.Ye.

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KOLOMIYCHENKO, Vasilii Vasil'yevich; SALENKO, S.V., inzhener, redaktor;  
KHITROV, P.A., tekhnicheskiy redaktor

[Organization and technology of the repair of automatic couplers;  
work practice of leading automatic coupler control points] Organi-  
zatsiia i tekhnologiiia remonta avtostsepki; opyt raboty peredovykh  
kontrol'nykh punktov avtostsepki. Moskva, Gos. transp.zhelez-dor.  
izd-vo, 1956. 77 p. (MLRA 9:8)  
(Car couplings)

KOLOMIYCHENKO, V.V., inzh.; LADYGIN, V.I.

Reducing the longitudinal clearances of the elements of  
automatic coupling systems. Vest.TSNII MPS 21 no.6:45-47  
'62. (MIRA 15:9)  
(Car couplings)

KOLOMIYCHENKO, V. V., starshiy nauchnyy sotrudnik

Maintenance and repair of automatic couplers of electric  
trains. Elek. i tepl. tsiaga 7 no. 3:14-15 Mr '63.

(MIRA 16:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zhelezno-  
dorozhnogo transporta Ministerstva putey soobshcheniya.  
(Electric railroads—Rolling stock)  
(Electric railroads—Maintenance and repair)

YEMEL'YANOV, N.P.; VEL'MIN, A.A.; KOLOMIYCHENKO, V.V.; KOROLEV,  
A.N., inzh., retsenzent; BRAYLOVSKIY, N.G., inzh., red.;  
KHITROVA, N.A., tekhn. red.

[Build-up welding of automatic-coupler parts using a laying  
lamellar electrode under flux] Naplavka detalei avtostsepki  
pod fliusom lezhachim plastinchatym elektrodom. Moskva,  
Transzheldorizdat, 1963. 44 p. (MIRA 16:10)  
(Car couplings—Maintenance and repair)

KOLOMIYCHENKO, V.V., inzh.

Improving the methods for repairing automatic coupling systems.  
Vest, TSNII MPS 24 no.4:28-31 '65. (MIRA 18:7)

KOLOMIYCHENKO, Ye. N.

KOLOMIYCHENKO, Ye. N. (Kyiv)

Clinical aspects and treatment of amebiasis. Vrach.delo supplement  
'57:72-73 (MIRA 11:3)

1. Institut infektsionnykh bolezney AMN SSSR.  
(AMEBIASIS)

KOLOMIYCHENKO, Yu., inzh.

The main building of a concentration plant made of precast reinforced concrete. Prom.stroi.i inzh.skor. 4 no.524-28  
S-0 '62. (MIRA 16:1)  
(Metallurgical plants—Design and construction)  
(Precast concrete construction)

KOLOMIYCHUK, L.M.; SREDNIY, I.Ye., dots., red.

[Outline of lectures in a course on the theoretical principles of radio engineering, "The generator with transformer feedback"] Konspekt lektsii po kursu teoreticheskikh osnov radiotekhniki "Generator s transformatornoi obratnoi sviaz'iu. Odessa, Odesskii elektrotekhn. in-t sviazi, 1963. 21 p. (MIRA 17:9)

KOLOMIYCHUK, L.M.

Transfer functions of linear systems with three energy  
accumulators. Trudy ucheb. inst. sviazi no.14:15-30 '63.  
(MIRA 17:9)  
1. Odesskiy elektrotekhnicheskiy institut svyazi.

KOLOMIYCHUK, L.M.

Determination of steady-state conditions and transfer functions  
of linear systems. Radiotekhnika 19 no.7:23-32 Jl '64.

(MIRA 17:12)

1. Deystvitel'nyy chlen Nauchno-tekhnicheskogo obshchestva  
radiotekhniki i elektrosvyazi im. A.S. Popova.

24.2000

77130  
SOV/70-4-6-31/31

AUTHORS: Regel', V. R., Urusovskaya, A. A., Kolomiychuk, V. N.

TITLE: Revealing Dislocation Patterns on Crystal Surfaces by  
Means of Etching. A Review.

PERIODICAL: Kristallografiya, 1959, Vol 4, Nr 6, pp 937-955 (USSR)

ABSTRACT: This is a review of Soviet and foreign literature covering the period 1944 to 1959 inclusive, and dealing with etch pit formations. Forty-five investigated metals, metal alloys, minerals, and chemical compounds are correlated in a table with the etching agents used in the studies, and with the corresponding reference sources. The following etching agents not mentioned in the foreign literature were used in the Soviet studies: for etching germanium crystals,  $K_3[Fe(CN)_6] + KOH$  [Ref 237]; for antimony, ionic bombardment [Ref. 235, 236]; for cadmium, 2 pts.  $H_3PO_4$  + 2 pts. glycerol + 2 pts.  $H_2O$ ;

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by Means of Etching. A Review

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electrolytic etching with 0.9-1.0 v current for 20 to 40 sec [Ref 225]; for sylvine (KCl); butvar [Ref 262]; for LiF, 3% hydrogen peroxide [Ref 226]; for calcite (CaCO<sub>3</sub>), hydrochloric acid in various concentrations [Ref 168]. The first Soviet studies on detection of dislocations by means of etching and decoration were published in 1957. It was shown [Ref 150] that the strains around the dislocations determined optically agreed with those predicted theoretically. G. B. Rays [Ref 168] investigated etch pits in calcite crystals and correlated them with the dislocations. Dislocation nets in silver chloride crystals were also investigated [Ref 180]. The formation and movements of dislocations in LiF crystals subjected to plastic deformation and under the action of high temperature were studied, and it was shown that the mobility of the screw dislocations was higher than that of the edge dislocations [Ref 226]. Deformed NaCl crystals were investigated optically and interferometrically by means of selective etching [Ref 261]. Symmetrical and spiral Frank-Read

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by Means of Etching. A Review

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sources were revealed on etching cadmium crystals containing 0.01% zinc, and cinematographic pictures of the etching of these sources were taken, showing their distribution in the crystal [Ref. 249]. Frank-Read sources were also revealed in cadmium crystals by means of ionic bombardment, in much higher number than by the etching method [Ref 249]. Studies on etching zinc crystals [Ref 251, 257] helped to explain the discrepancy in the results obtained by J. J. Gilman [J. Metalls, 1956, Vol 8, Nr 8, pp 998-1004] and A. H. Meleka [Philos. Mag., 1956, Vol 1, Nr 9, pp 803-811]. By acting on the crystal surface with an alcohol solution of iodine, the latter obtained not etch-pits but growth patterns, arranged not so much on the dislocations as on the uneven spots of the surface. The effect of bismuth admixtures on the density of the dislocations in germanium crystals was investigated [Ref 237]. Selective etching was used in the studies

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of the translational origin of irrational twins in NaCl and LiF [Ref 242] and birefringent bands in zinc [Ref 260]. Other Soviet and related references are listed in the attached card. There is 1 table; and 264 references, 108 U.S., 75 U.K., 10 French, 6 Dutch, 1 Italian, 22 Japanese, 11 German, 2 Polish, 2 Czechoslovakian, 2 Hungarian, and 25 Soviet. The most recent U.S. and U.K. references are: L. R. Low, R. W. Guard, Acta Metallurgica, 7, 3, 171-179, 1959; T. H. Schofield, A. E. Bacon, ibid., 7, 6, 403-406, 1959; L. C. Lovell, J. H. Wernick, J. Appl. Phys., 30, 5, 1959; A. S. Parasnis, J. W. Mitchell, Philos. Mag., 4, 38, 171-179, 1959; J. Silcox, P. H. Hirsch, ibid., 4, 37, 72-89, 1959. Soviet and Related References: 118. I. Auleytner, K. Godwood, I. Krilov, Bull. de l'Acad. Polon., 5, 6, 639-642, 1957; 150. V. L. Indenbom, G. E. Tomilovskiy, Dokl. AN SSSR, 115, 4, 723-726, 1957; 151. B. Jeszenszky, Acta Phys. Acad. Scient. Hungar., 8, 147-160, 1957; 168. G. B. Rays, Dokl. AN SSSR, 117, 3, 419-422, 1957; 174. S. Yu., Atomnaya energiya, 3, 7, 70-72, 1957; 180. M. P. Shaskol'skaya, Yu. Kn.

Card 4/7

Revealing Dislocation Patterns on Crystal Surfaces  
by Means of Etching. A Review

77130  
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Vekilov, Kristallografiya, 2, 4, 548-551, 1957; 182.  
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17, 2-3, 93-96, 1958; 209. F. Kroupa, Chekh. fiz.  
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Shashkov, V. I. Rozhdestvenskaya, Etching of Silicium  
Monocrystals. Proceedings of the Conference on the  
Metallurgy of Semiconductors (Travleniye kristallov  
kremniya. Sb. tr. Soveshchaniya po metallurgii polu-  
provodnikov) 1958; 218. V. G. Rakin, N. N. Buynov,  
Fiz. metallov i metallovedeniye, 6, 4, 686-691, 1958;  
225. N. A. Tyapunina, A. A. Predvoditelev, Nauchn.  
dokl. vyssh. shkoly, 2, 1, 184, 1958; 226. A. A.  
Urusovskaya, Kristallografiya, 3, 1, 1958; 235. V. Ye.  
Yurasova, Zh. tekhn. fiz., 1958; 236. V. Ye. Yurasova,  
G. M. Protopopova, Kristallografiya, 3, 1958; 237.  
V. T. Alekseyeva, P. G. Yeliseyev, Fiz. tverdogo tela,  
1, 8, 1304-1307, 1959; 242. V. L. Indenbom, A. A.  
Urusovskaya, Kristallografiya, 4, 1, 85-92, 1959;

Card 5/7

Revealing Dislocation Patterns on Crystal Surfaces 77130  
by Means of Etching. A Review SOV/70-4-6-31/31

247. A. A. Predvoditelev, N. A. Tyapunina, *Fiz. metallov i metallovedeniye*, 7, 6, 855-861, 1959;  
248. A. S. Bystrikov, *Diplomnaya rabota, Kafedra molekulyarnoy fiziki, Fizfak, MGU, Moscow*, 1959;  
249. V. Ye. Yurasova, E. A. Pavlovskaya, N. A. Tyapunina, A. A. Predvoditelev, *Fiz. metallov i metallovedeniye* (in print); 250. V. G. Rakin, N. N. Buynov, *Fiz. metallov i metallovedeniye*, 7, 6, 939-943, 1959; 251. V. R. Regel', V. M. Stepanova, *Kristallografiya*, 4, 2, 226-234, 1959;  
252. V. M. Stepanova, V. V. Prokrovskiy, V. R. Regel', *Kristallografiya*, 5, 1, 1960; 254. B. Sestak, On the Mechanism of Rendering Visible Dislocations on the Surface of Iron Crystals by Anodic Dissolving, *Czechošl. J. Phys.*, 9, 3, 339-347, 1959; 256. G. V. Spivak, V. Ye. Yurasova, A. I. Klenova, T. A. Vlasova, *Fiz. metallov i metallovedeniye*, 7, 6, 893-898, 1959;  
257. V. M. Stepanova, A. A. Urusovskaya, *Kristallografiya*,

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SC

ACCESSION NO: AP4012273

S/0070/64/009/001/0026/0031

AUTHORS: Dvoryankin, V. F.; Kolomychuk, V. N.

TITLE: The effect of thermal movement of the hydrogen atom on the distribution of its potential

SOURCE: Kristallografiya, v. 9, no. 1, 1964, 26-31

TOPIC TAGS: thermal movement, potential distribution, atomic thermal movement, hydrogen thermal movement, hydrogen potential

ABSTRACT: This is a completion of V. F. Dvoryankin's immediately preceding article (Kristallografiya, 9, 1, p. 20, 1964). The authors have used the function for distribution of potential for the hydrogen atom derived in the indicated paper, and they have made computations for different values of the isotropic temperature factor and different values of  $(\sin \theta)_{\max}$ . The results are presented in several long tables. From these results the authors conclude that isotropic thermal movement of a hydrogen atom clearly affects its distribution of potential. With increase in the temperature factor, there occurs, first, a decline in the distribution function and, secondly, a "smearing" of the potential. Concerning the

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break in the Fourier series, this clearly affects the distribution of potential also. With increase in the temperature factor, the effect of this break declines. Decrease in temperature factor leads to increased distortion of the potential distribution, and diminution in the break may occur at lower temperatures. Cooling a sample, therefore, causes decrease in value of the temperature factor and increase in the value of  $(\sin Q)_{\max}$ . The problem lies in selecting the optimal conditions. Orig. art. has: 2 figures, 4 tables, and 7 formulas.

ASSOCIATION: Institut neorganicheskoy khimii Sibirskogo otdeleniya AN SSSR  
(Institute of Inorganic Chemistry Siberian Department AN SSSR)

SUBMITTED: 15Jun63

DATE ACQ: 19Feb64

ENCL: 00

SUB CODE: PH

NO REF SOV: 004

OTHER: 004

Card 2/2

KOLOMIYCHUK, V.N.; DVORYANKIN, V.F.

Electron diffraction determination of the position of hydrogen  
atoms in NH<sub>4</sub>Br. Kristallografiia 9 no.1:50-56 Ja-F '64.  
(MIRA 17:3)

1. Institut neorganicheskoy khimii Sibirskogo otdeleniya AN SSSR.

SOKOLOVSKIY, A., inzh.; KOLOMIYER, M., inzh.

Vibration rollers for packing asphalt concrete pavements.  
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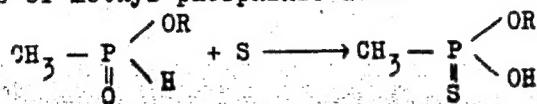
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AUTHORS: Petrov, K. A., Bliznyuk, N. K., Studnev, Yu. N., and  
Kolomiyets, A. F.TITLE: Monoalkoxy-methyl Thiophosphonates and Monoalkoxy-methyl  
Phosphonites

PERIODICAL: Zhurnal obshchey khimii, 1961, Vol. 31, No. 1, pp. 179 - 184

TEXT: In order to simplify the synthesis of the above compounds described  
in Refs. 1 - 4, the authors studied the addition reaction of sulfur to  
the monoesters of methyl phosphinic acid:

The rate of this reaction depends, above all, on the nature of the solvent  
to be applied. This reaction, for instance, proceeds rapidly and smoothly  
in dioxane, but does not take place at all in ether. Like dialkyl phosphites (Ref. 6), also alkyl phosphonites add sulfur in ethereal solution

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